

Joan M. Bathon, M.D.
September 2002

NO
REDACTS
NEEDED

DEMOGRAPHIC INFORMATION

Current Appointments:

Associate Professor of Medicine
Division of Rheumatology, Department of Medicine
The Johns Hopkins University School of Medicine

Director, Johns Hopkins Arthritis Center
Co-Director, Johns Hopkins Arthritis WebSite

Director, Office of Women in Science and Medicine
Johns Hopkins University School of Medicine

Personal Data:

Division of Rheumatology
Johns Hopkins University School of Medicine
Johns Hopkins Allergy and Asthma Center
5501 Hopkins Bayview Circle
Baltimore, Maryland 21224

Education and Training:

1970-1974	Marquette University, Milwaukee, Wisconsin B.S. in Biology, magna cum laude
1974-1978	University of Maryland Medical School Baltimore, Maryland M.D. degree
1978-1980 and 1981-1982	Intern and Resident in Medicine Univ. of Maryland Hospital, Baltimore, Maryland
1980-1981 and 1982-1983	Post-doctoral Fellow in Rheumatology The Johns Hopkins Univ. School of Medicine Baltimore, Maryland

Professional Experience:

July 1994-present	Deputy Director, Division of Rheumatology at the Johns Hopkins Bayview Medical Center
June 1993-present	Associate Professor of Medicine The Johns Hopkins University School of Medicine Baltimore, Maryland

August 1986-June 1993

Assistant Professor of Medicine The Johns Hopkins University
School of Medicine, Baltimore, Maryland

July 1983-July 1986

Assistant Professor of Medicine
West Virginia Univ. School of Medicine
Morgantown, West Virginia

RESEARCH ACTIVITIES:

Publications:

Peer-Reviewed Articles

1. Peters-Golden M, Bathon J, Flores R, Hirata F and Newcombe D. Glucocorticoid inhibition of zymosan-induced arachidonic acid release by rat alveolar macrophages. *Am Rev Resp Dis* 130:803-8, 1984
2. Bathon J, Graves J, Jens P, Hamrick R and Mayes M. The erythrocyte sedimentation rate in endstage renal failure. *Amer J Kidney Dis* 5:33-40, 1987
3. Bathon J, Moreland L and DiBartolomeo A. Inflammatory central nervous system involvement in rheumatoid arthritis: Case report and review of the literature. *Seminars Arthr Rheum* 18:258-266, 1989
4. Schwartz MM, Lan S, Bonsib SM, Gephardt CN, Sharma HM and The Lupus Nephritis Collaborative Study Group. Clinical outcome of three discrete histologic patterns of injury in severe lupus glomerulonephritis. *Amer J Kidney Dis* XIII: 273-283, 1989
5. Schwartz M., Bernstein J, Hill GS, Holley K, Phillips E, and The Lupus Nephritis Collaborative Study Group. Predictive value of renal pathology in diffuse proliferative lupus glomerulonephritis. *Kidney Inter* 36:891-96, 1989
6. Bathon J, Proud D, Krackow K, and Wigley F. Preincubation of human synovial cells with Interleukin-1 modulates PGE₂ release in response to bradykinin. *J Immunol* 143:579-86, 1989
7. Brick JE, Ong SH, Bathon JM, Walker SE, O'Sullivan FX and DiBartolomeo AG. Anti-Histone antibodies in the serum of autoimmune MRL and NZB/NZW F₁ Mice. *Clin Immunol Immunopathol* 54:372-81, 1990
8. Pohl MA, Lan S-P, Berl T, and The Lupus Nephritis Collaborative Study Group. Plasmapheresis does not increase the risk for infection in immunosuppressed patients with severe lupus nephritis. *Ann Int Med* 114:924-9, 1991
9. Lewis EJ, Hunsicker LG, Lan S-P, Rohde RD, Lachin JM for the Lupus Nephritis Collaborative Study Group. A controlled trial of plasmapheresis therapy in severe lupus nephritis. *New Engl J Med* 326:1373-1379, 1992
10. Bathon JM, Manning DC, Goldman DW, Healy R, and Proud D. Characterization of kinin receptors on human synovial cells and upregulation of receptor number by interleukin-1. *J Pharmacol Exp Therap* 260:384-392, 1992

11. Bathon JM, Proud D, Mizutani S and Ward PE. Cultured human synovial cells rapidly metabolize kinins and neuropeptides. *J Clin Invest* 90:981-991, 1992
12. Levey AS, Lan S-P, Corwin HL, Kasinath BS, Lachin J, Neilson EG, Hunsicker LG, Lewis EJ and The Lupus Nephritis Collaborative Study Group. Progression and remission of renal disease in the lupus nephritis collaborative study. *Ann Internal Med* 116:114-123, 1992
13. Proud D, Reynolds CJ, Broomfield J, Goldman DW and Bathon JM. Bradykinin effects in guinea pig tracheal epithelial cells are mediated through a B₂ kinin receptor and can be inhibited by the selective antagonist, Hoe 140. *J Pharmacol ExpTherap* 264:1124-1131, 1993
14. Bathon JM, Hwang JH, Shin LH, Precht PA, Towns MC and Horton WE. Type VI collagen specific messenger RNA is expressed constitutively by cultured human synovial fibroblasts and is suppressed by interleukin-1. *Arthritis Rheum* 37:1350-1356, 1994
15. Bathon JM, Croghan JC, MacGlashan DW and Proud D. Bradykinin is a potent and relatively selective stimulus for cytosolic calcium elevation in human synovial cells. *J Immunology* 153:2600-2608, 1994
16. Brown KE, Shao W, Bathon J and Leong K. Controlled drug delivery to the joints by enzymatically degradable microspheres. *Materials Research Soc Proc* 331:73-78, 1994
17. Proud D, Bathon JM, Togias AG and RM Naclerio. Inhibition of the response to nasal provocation with bradykinin by Hoe 140: Efficacy and duration of action. *Can J Physiol Pharmacol* 73:820-826, 1995
18. Brown K, Bathon J, Huang C-H, Dalal R, and Leong K. Cationic gelatin as a gene carrier. *Materials Research Soc Proc* 394:61-66, 1995
19. Bathon JM, Chilton FH, Hubbard WC, Towns MC, Solan NJ and Proud D. Mechanisms of prostanoid synthesis in human synovial cells: Cytokine-peptide synergism. *Inflammation*. 20:537-554, 1996
20. Austin CD, Faussner A, Robinson HE, Chakravarty S, Kyle DJ, Bathon JM and Proud D. Stable expression of the human kinin B₁ receptor in CHO cells: Characterization of ligand binding and effector pathways. *J Biol Chem*. 272:11420-11425, 1997
21. Solan NJ, Ward PE, Sanders S, Towns MC, Bathon JM. Soluble neutral endopeptidase (CD10) as a potential anti-inflammatory agent. *Inflammation* 22:107-121, 1998
22. Faussner A, Proud D, Towns M, Bathon JM. Influence of the cytosolic carboxy termini of human B₁ and B₂ kinin receptors on receptor sequestration, ligand internalization, and signal transduction. *J Biol Chem*. 273:2617-2623, 1998
23. Ling S, Bathon JM. Osteoarthritis in the Elderly. *J Am Geriatr Soc*. 46:216-25, 1998
24. Schwindinger WF, Fredericks J, Watkins L, Robinson H, Bathon JM, Pines M, Suva LJ and Levine MA. Coupling of the PTH/PTHrP receptor to multiple G proteins: Direct demonstration of receptor activation of Gs, Gq/G11 and Gi(1) by [alpha-32P] GTP-gamma azidoanilide photoaffinity labeling. *Endocrine* 8:201-209, 1998

25. Brown KE, Leong K, Huang C-H, Dalal R, Green GD, Haimes HB, Jimenez PA, Bathon JM. Gelatin/Chondroitin-6-sulfate microspheres for the delivery of therapeutic proteins to the joint. *Arthritis Rheum*: 41:2185-2195, 1998
26. Moreland LW, Morgan EE, Adamson TC III, Calabrese LH, Cash JM, Markenson JA, Matsumoto AK, Bathon J, et al. T Cell receptor peptide vaccination in rheumatoid arthritis: A placebo controlled trial using a combination of V β 3, V β 14 and V β 17 peptides. *Arthritis Rheum* 41:1919-29, 1998
27. Andersen RE, Crespo CJ, Ling SM, Bathon JM, Bartlett SJ. Prevalence of significant knee pain among older Americans. Results from the third National Health and Nutrition Examination Survey. *J Am Geriatric Soc* 47:1435-38, 1999

Abstracted in *2001 Year Book of Rheumatology, Arthritis and Musculoskeletal Disease*, Mosby-Year Book, Inc.
28. Faussner A, Bathon JM, and Proud D. Comparison of the responses of B1 and B2 receptors to agonist stimulation. *Immunopharmacology* 45:13-20, 1999
29. Bathon JM, Martin RW, Fleischmann RM, et al. A comparison of etanercept and methotrexate in patients with early arthritis. *New Engl J Med*. 343:1586-1593, 2000.

Abstracted in *2001 Year Book of Medicine*, Mosby-Year Book, Inc.
30. Ling SM, Fried LP, Garrett ES, Fan M-Y, Johnson B, Ratanen T, Gregory P, Bathon JM. Predictors of knee osteoarthritis-associated disability in older women: The Women's health and aging study II. *J Rheum*. (In press).
31. Genovese MC, Bathon JM, Martin RW, Fleischmann RM, Tesser JR, et al. Two-year radiographic and clinical outcomes: Etanercept vs methotrexate in patients with early rheumatoid arthritis (ERA). *Arthritis Rheum* 46:1443-1450, 2002.
32. Christmas C, Crespo CJ, Franckowiak SC, Bathon JM, Bartlett SJ, Andersen RE. Prevalence of significant hip pain among older Americans: Results from the Third National health and Nutrition Examination Survey. *J Family Practice* 51:345-8, 2002.
33. Kremer JM, Genovese MC, Cannon GW, Caldwell IJR, Cush JJ, Furst DE, Luggen ME, Keystone E, Weisman MH, Strand V, and Bathon JM. Concomitant leflunomide therapy in patients with active rheumatoid arthritis despite stable doses of methotrexate: A randomized comparison of efficacy, safety and tolerability of both antimetabolites compared to methotrexate alone. *Annals Int Med* (in press).
34. Bartlett SJ, Piedmont R, Bilderback A, Matsumoto AK, Bathon JM. Spirituality, well-being and quality of life in persons with rheumatoid arthritis. *Arthritis Care Res* (in press).
35. Furst DE, Luggen ME, Genovese M, Kaine J, Ruderman EM, Coleman P, Kremer JM, Curtis D, Keystone E, Kopp E, Kantor SM, Weisman M, Waltuck J, Cush JJ, Lindsley HB, Cannon GW, Caldwell JR, Markenson JA, Bensen W, Doyle J, Simpson K, Crawford B, Strand V, Bathon J. Leflunomide improves physical function and health –

related quality of life when added to methotrexate in patients with active rheumatoid arthritis. Submitted.

36. Andersen RE, Crespo CJ, Bartlett SJ, Bathon JM, Fontaine KR. Is there pain with weight gain? Relationship between body weight and knee, hip and back pain in older Americans. Submitted.

Non-peer Reviewed Articles

37. Bathon JM and Proud D. Bradykinin Antagonists. *Ann Rev Pharmacol Toxicol* 31:129-162, 1991
38. Bathon JM, Croghan JE, Goldman DW, MacGlashan DW and Proud D. Modulation of kinin responses in human synovium by interleukin-1. *Agents Action* 38/II:16-22, 1992
39. Bathon JM et al. Review of efficacy studies comparing etodolac ER with naproxen and nabumetone in patients with osteoarthritis of the knee. *PostgradMed.* (Suppl) May 1998, pp. 27-33, 1998
40. Brostoff SW, Carlo DJ, Diveley JP, Morgan EE, Nardo CJ, Richieri SP, Adamson TC, Fronek Z, Calabrese LH, Cash JM, Markenson JA, Bathon J, Matsumoto AK, et al. Results of a phase II rheumatoid arthritis clinical trial using T-cell receptor peptides. In *Advances in Osteoarthritis*. S. Tanaka, C. Hamanishi, eds. Springer-Verlag Tokyo 1999. Pages 153-162.
41. Bathon JM. Clinical opportunities of anti-TNF therapies in rheumatoid arthritis: An international roundtable. *Am J Managed Care* 5:S480-82, 1999
42. Howell E, Bathon J. A case of post-streptococcal reactive arthritis. *Md. Medical J* 48:292-294, 1999
43. Sule J, Bathon JM. Disease-modifying effects of new rheumatoid arthritis therapies. *Res Staff Phys.* 47:15, 2001

Book Chapters, Reviews and Monographs

44. Bathon JM. Shoulder Pain, in *Principles of Ambulatory Medicine*. Barker, LR, Burton, JR, Zieve, PD (eds), 3rd edition, Baltimore, Williams & Wilkins, 1990
45. Wigley FM and Bathon JM. Systemic Sclerosis, in *Current Therapy in Allergy, Immunology and Rheumatology*. Lichtenstein LM and Fauci AS (eds), 4th edition, Mosby-Year Book, Inc., St. Louis, MO, 1992
46. Proud D, Reynolds CJ, Bathon JM, Faussner A. Kinin actions in the human airways: Modulation by allergic inflammation, in *Asthma and Allergic Diseases. Physiology, Immunopharmacology and Treatment*, Marone G, Austen KF, Holgate ST, Kay AB, Lichtenstein LM, eds. Academic Press, San Diego, 1998
47. Matsumoto AK, Bathon JM. Anti-tumor necrosis factor agents. In *Modern Therapeutics in Rheumatoid Diseases*, editors Tsokos G, Moreland LM, Martel-Pelletier J, and Gay S. (in press)

48. Sule S and Bathon JM. Etanercept. In "TNF Inhibition in the Treatment of Rheumatoid Arthritis", editors Moreland LM and Emery P. Martin Dunitz Pub., London UK. In press.
49. Fried LP, Stokes E, MacDonald S, Rand C, Bathon J. Organizational Change to Support Success of Women: A Mode and Its Lessons. Chapter 9. In: Equal Rites, Unequal Outcomes: Women in American Research Universities. Lilli Hornig, Editor. Kluwer Academic/Plenum Publishers. (In Press).

Ad hoc reviewer for :

Journal of the American Medical Association
Journal of Clinical Investigation
Journal of Immunology
Arthritis and Rheumatism
Arthritis Care and Research
Rheumatology
Arthritis Care and Research
Proceedings of the Society for Experimental Biology and Medicine
Biochemistry
Hypertension
Journal of Allergy and Clinical Immunology
International Journal of Immunopharmacology
Western Journal of Medicine

CLINICAL ACTIVITIES:

Specialty Certification:

1979 Diplomat, National Boards
1983 Diplomat, American Board of Internal Medicine
1984 Diplomat, Rheumatology, American Board of Internal Medicine

Licensure: State of Maryland (D25083)

ORGANIZATIONAL ACTIVITIES:

Institutional Administrative Appointments:

2000- , Director, Office of Women in Science and Medicine, Office of the Vice Dean for Academic Affairs, School of Medicine
2000, Nominated to the Year 2000 School of Medicine Leadership Development Program, Dean's Office
2000- , Women's Leadership Council, Dean's Office
2000- , Member, General Clinical Research Center (GCRC) Advisory Committee, Johns Hopkins Bayview Med. Ctr.
1999- , Chair, Task Force on Academic Careers of Women in Medicine, Dept. of Medicine

- 1999, Nominated to the Year 1999 University Leadership Development Program, Provost's Office
- 1999, Member, Search Committee for Chairman of Medicine of the Johns Hopkins Bayview Medical Center
- 1997, Member, Search Committee for Chief of Division of Pulmonary Medicine, Dept. of Medicine, Johns Hopkins Univ.
- 1994- , Deputy Director, Rheumatology Division at the Johns Hopkins Bayview Medical Center

Professional Societies:

Committees (National Organizations)

Member, Committee on Awards and Grants, American College of Rheumatology Research and Education Foundation, 2000-present

Memberships

American College of Rheumatology, 1981-present
 American Association of Immunologists, 1992-1998
 American College of Physicians, 1983-1992
 American Federation of Clinical Research, 1983-1992
 American Association for the Advancement of Science, 1993-present
 Maryland Society for the Rheumatic Diseases, 1986-present
 Johns Hopkins Medical And Surgical Association, 1986-present

Conference Organizer, Session Chair:

June 2001, Moderator, Session entitled "Academic Enrollment in Data Bases", for national meeting to establish a Rheumatoid Arthritis Data Base, sponsored by the NIH, American College of Rheumatology and the Arthritis Foundation, Denver, Colorado

May 2001, Chair, Session on "Medical Management of Osteoarthritis", for course entitled "Osteoarthritis: from Neutraceuticals to Resurfacing", Baltimore, MD

December 2000, Co-Chair, Session on "Pathobiology of Rheumatoid Arthritis", NIH- and ACR-sponsored meeting: "Impact of anti-rheumatic therapies on radiographic progression of rheumatoid arthritis", Bethesda, MD

October 2000, American College of Rheumatology Annual Scientific Meeting, Phila, PA, Moderator, Session on "Outcome of disease modifying therapy in early rheumatoid arthritis"

October 1994, Moderator, Session on "Adhesion Molecules", Annual meeting of The American College of Rheumatology, Minneapolis, MN.

Advisory Committee, Review Groups:

Reviewer, Clinical Sciences Special Emphasis Panel, NIH, 1998
 Chair, Arthritis Foundation, Inflammation Study Section, 1997
 Reviewer, Arthritis Foundation, Inflammation Study Section, 1995-1996
 Reviewer, VA Merit Review Committee, Immunology Section, 1995
 Reviewer, Advanced Technology Program of the National Institute of Standards &

Technology, 1994

Community, Departmental and Divisional Activities:

Deputy Director, Rheumatology Division at Johns Hopkins Bayview Medical Ctr., 1993-present
Director, Hopkins Arthritis Center
Founder and Co-Director, The Johns Hopkins Arthritis Center WebSite; 1998-present
Task Force on the Careers of Women in Academic Medicine, Dept. of Medicine, JHU
Chair, 1999-present; Member, Executive Committee, 1994-present
The Arthritis Foundation, Maryland Chapter:
Board of Directors, 1996-present
Medical and Scientific Committee, 1993-present
Professional Education Committee, 1991-1993
Abstract Selection Committee, American College of Rheumatology, 1994-1996; 2000-2001
Facilitator, Dept. of medicine faculty retreat, JHU, Feb. 1998
Intern Selection Committee, Johns Hopkins Bayview Dept. of Medicine, 1986-90 and 1996-present
Coordinator, Molecular Mechanisms of Autoimmune Disease Seminar, Rheumatology Division, 1994-95
Post-Doctoral Fellowship Selection Committee, Rheumatology Division, 1993-present
Committee for Rheumatology Curriculum for second year medical students, Rheumatology Division, 1993-present

Consultantships

National Advisory Board, CTLA4-Ig Project, Bristol Myers Squibb, 2000
International Advisory Board, Anti-TNF Project, Centocor, 2000
National Advisory Board, Anti-TNF Project, Knoll Pharmaceuticals, 2000
National Advisory Board, Anti-TNF Project, Immunex and Wyeth Ayerst, 1998-1999
National Advisory Board, COX-2 Project, Searle, 1998-2000
Consultant, Bradykinin receptor antagonist project, Fournier Pharmaceuticals, Dijon, France, 1996
Consultant, Antiinflammatory initiative, Procter and Gamble, Cincinnati, Ohio, 1993

RECOGNITION:

Awards, Honors:

1970-74	Marquette University Scholarship
1974	Graduated magna cum laude
<hr/>	
1986	Upjohn Young Investigator
1986	Fellow, American College of Rheumatology
1989	Arthritis Investigator (Chapter) Award
1991	NIH Clinical Investigator Award
1991	Award for Poster Presentation, International Conference on Kinins and Kallikreins, Munich
1995	American Heart Association (Chapter) Award
1997	Arthritis Foundation, Maryland Chapter Award

2001

Awards for the Johns Hopkins Arthritis WebSite:

- 1) Silver Award, Best Healthcare Non-Profit Organization
- 2) Award of Excellence in Professional Education, The National Arthritis Foundation
- 3) Professional Education Award, Maryland Chapter of the Arthritis Foundation

Invited Talks, Panels:

(November 2002) Joint Preserving Treatment of the Knee, Johns Hopkins Medicine, Williamsburg, VA
"Osteoarthritis: Joint Preserving therapies"

(November 2002) A Woman's Journey, Johns Hopkins Univ. School of Medicine, Baltimore, Maryland
"Arthritis: New Developments"

July 2002, 17th Annual National MD/PhD Student Conference (July 2002), Snowmass, Colorado
"Rheumatoid Arthritis: A Paradigm of Inflammation"

May 2002, Meet the Professor, Topics in Internal Medicine, Johns Hopkins Medicine, Baltimore, MD
"Treatment of Rheumatoid Arthritis"

May 2002, Rheumatology Rounds, University of Miami, Miami, Florida
"Management of rheumatoid arthritis"

April 2002, 11th International Rheumatology Symposium and 46th Annual Meeting of the Japanese Rheumatism Association, Kobe, Japan
"Treatment of Rheumatoid Arthritis: Efficacy of Etanercept"

April 2002, Rheumatology Rounds, Beth Israel Hospital, Harvard Medical Institutions, Boston, Massachusetts
"TNF inhibitors: weighing the benefits and risks"

April 2002, Medical Grand Rounds, New England Medical Center, Boston, Massachusetts
"Update on treatment of rheumatoid arthritis: the new agents"

October 2001, Medical grand rounds, Johns Hopkins Bayview Medical Center, Baltimore, Maryland
"Status of Women in Academic Medicine: Glass Ceiling or Sticky Floor?"

October 2001, Rheumatology rounds, Yale University, New Haven, Connecticut
"Tumor necrosis inhibitors: Assessing the risk of opportunistic infections"

September 2001, Annual Topics in Rheumatology, The Arthritis Foundation Maryland Chapter, Baltimore, Maryland
"Update on Arthritis Treatments: Medications and Supplements"

October 2001, Rheumatology rounds, University of Connecticut, Hartford, Connecticut
"Tumor necrosis inhibitors: Balancing benefits and risks"

November 2001, Osteoarthritis: A comprehensive treatment approach from neutraceuticals to new weight bearing surface", Johns Hopkins Univ. School of Medicine, Baltimore, Maryland
"Overview of non-surgical approaches for osteoarthritis: Medical Treatment"

June 2001, "New Developments in Rheumatoid Arthritis", Biennial meeting of the Johns Hopkins Medical and Surgical Association, Baltimore, MD

June 2001, "Academic Enrollment in Data Bases", national meeting to establish a Rheumatoid Arthritis Data Base, sponsored by the NIH, American College of Rheumatology and the Arthritis Foundation, Denver, Colorado

May 2001, 46th Annual Philip A. Tumulty Topics in Clinical Medicine
Johns Hopkins Univ. School of Medicine, Baltimore, Maryland
"Rheumatoid Arthritis: Early, aggressive treatment"

May 2001, Current Concepts in Geriatric Orthopaedics
Johns Hopkins Univ. School of Medicine, Baltimore, Maryland
"Medical management of arthritis in the elderly"

May 2001, "Overview of Non-Surgical Approaches for Osteoarthritis: Medical Treatment",
Osteoarthritis: A Comprehensive Treatment Approach from Neutraceuticals to New Weight Bearing Surface, Baltimore, MD

May 2001, "Rheumatoid Arthritis: Early, Aggressive Treatment", Topics in Clinical Medicine, Baltimore, MD

April 2001, "Medical Management of Arthritis", Current Concepts in Geriatric Orthopaedics, Baltimore, MD

December 2000, "Early Rheumatoid Arthritis Trial Results on Etanercept", NIH- and ACR-sponsored meeting: Impact of anti-rheumatic therapies on radiographic progression of rheumatoid arthritis, Bethesda, MD

October 2000, American College of Rheumatology Annual Scientific Meeting, Philadelphia, PA, Moderator of Session on "Outcome of disease modifying therapy in early rheumatoid arthritis"

October 2000, American College of Rheumatology 2000 Annual Scientific Meeting Satellite Symposia, Philadelphia, PA, "Intervention in early rheumatoid arthritis"

September 2000, Panel Member, 10th National Inflammation Research Association Meeting, Hot Springs, VA, "Recent Therapeutic Experiences with the New Generation of Drugs for Inflammatory Diseases"

June 2000, Special Seminar, University of Naples, Naples, Italy, "Pathophysiology of rheumatoid arthritis"

May 2000, Topics in Clinical Medicine 2000, Johns Hopkins Medical Inst., Baltimore, MD, "Alternative therapies for arthritis"

May 2000, Graduate Program in Immunogenetics Lecture Series, Johns Hopkins Medical Inst., Baltimore, MD, "Pathophysiology of rheumatoid arthritis"

December 1999, Topics in Ambulatory Medicine X, Johns Hopkins Bayview Medical Center, Baltimore, MD, "New directions for treatment of osteoarthritis"

November 1999, American College of Rheumatology 1999 Annual Scientific Meeting Satellite Symposia, Boston, MA, "Experience with the use of etanercept in the treatment of rheumatic diseases; results of the early rheumatoid arthritis trial"

September 29, 1999, Medical Grand Rounds, Johns Hopkins Bayview Medical Center, "Most important advances in the past year in rheumatology", Baltimore, MD

September 24, 1999, Topics in Clinical Rheumatology, sponsored by the Arthritis Foundation, Maryland, Chapter, "New therapies for treating rheumatoid arthritis", Baltimore, MD

September 18, 1999, Annual Scientific Meeting of the Virginia Rheumatism Society, "Anti-protease therapy for osteoarthritis", Winchester, VA

September 17, 1999, 27th Annual Symposium in Geriatric Medicine, "Advances in the treatment of osteoarthritis", Baltimore, MD

September 8, 1999, Medical Grand Rounds, Reading Hospital, "Advances in the treatment of rheumatoid arthritis," Baltimore, MD

July 16, 1999, Medical Grand Rounds, Harbor Hospital, "Advances in the treatment of osteoarthritis", Baltimore, MD

June 2, 1999, Visiting Professor, University of Michigan, "The biology of the kinin receptors", and "Professor Rounds with the residents", Ann Arbor, MI

June 1, 1999, Medical Grand Rounds, Scripps Mercy Hospital, "Update on the treatment of rheumatoid arthritis," San Diego, CA

May 8, 1999, Conjoint Clinic, Johns Hopkins Medical Institutions, "Advances in the treatment of rheumatoid arthritis," Baltimore, MD

May 6, 1999, Medical Grand Rounds, Monmouth Medical Center, "Anti-cytokine therapy for rheumatoid arthritis, Monmouth, NJ

April 1, 1999, Geriatric Conference, Union Memorial Hospital, "New advances in the treatment of osteoarthritis", Baltimore, MD

March 25, 1999, Medical Grand Rounds, Franklin Square Hospital, "Overview of the treatment of osteoarthritis", Baltimore, MD

March 17, 1999, Medical Grand Rounds, Kimbrough Army Hospital, "New approaches to the treatment of osteoarthritis", Fort Meade, MD

March 13, 1999, Speaker, Frontiers in Medicine, "Update on treatment for rheumatoid arthritis", University Hospital, Miami, FL

March 11, 1999, Medical Grand Rounds, University of Illinois, "Pathophysiology and new therapies for rheumatoid arthritis", Chicago, IL

March 4, 1999, Monthly conference, Wyman Park Medical Center, Johns Hopkins Medicine, "New approaches to the treatment of osteoarthritis", Baltimore, MD

February 24, 1999, Weekly conference, Winchester Medical Center, "New approaches to the treatment of osteoarthritis", Winchester, VA

February 16, 1999, Medical Grand Rounds, Howard University, "What's new in the treatment of rheumatoid arthritis?", Washington, D.C.

February 5, 1999, Medical Grand Rounds, Overlook Hospital, "Update on new treatments for rheumatoid arthritis", Summit, NJ

January 29, 1999, Medical Grand Rounds, The Johns Hopkins Hospital, "Update on treatment of rheumatoid arthritis, Baltimore., MD

January 27, 1999, Medical Grand Rounds, St. Mary's Health Center, "Anti-cytokine treatment of rheumatoid arthritis, Baltimore, MD

November 26, 1998, Mercy Fitzgerald Hospital, Medical Grand Rounds, "New treatments for rheumatoid arthritis", Darby, PA

October 31-November 1, 1998, Florida Rheumatism Society, "Novel treatments for rheumatoid arthritis", Jacksonville and St. Petersburg, FL

October 26, 1998, Rheumatology West Virginia University, "Anticytokine treatment of rheumatoid arthritis", Morgantown, WV

October 16, 1998, Clinical Conference, Div. Of Allergy and Clinical Immunology, "Pathophysiology of rheumatoid Arthritis", Johns Hopkins Med. Institutions, Baltimore, MD

October 14, 1998, Medical Grand Rounds, Johns Hopkins Bayview Medical Center, "What's on the horizon for the treatment of rheumatoid arthritis?", Baltimore, MD

February 3, 1995, Participant, Symposium – "22nd Annual Geriatrics Symposium", sponsored by the Johns Hopkins Division of Geriatric Medicine, Baltimore, MD, lecture entitle "Degenerative joint disease".

October 24, 1994, Moderator, Session on Adhesion Molecules, annual meeting of The American College of Rheumatology, Minneapolis, MN.

January 27, 1994, Participant, Symposium – "21st Annual Geriatrics Symposium", sponsored by the Johns Hopkins Division of Geriatric Medicine, Baltimore, MD, lecture entitled "Osteoarthritis".

November 1993, Medical Grand Rounds, Johns Hopkins Bayview Medical Center, Baltimore, MD, Osteoarthritis: Advances in Treatment".

May 6, 1993, Visiting Scientist, Khepri Pharmaceuticals, San Francisco, CA, lecture entitled "Kinin and neuropeptide metabolism in normal and inflamed joints".

February 1993, Invited Speaker, Gordon Conference on Kinins and Kallikreins, Ventura, CA, lecture entitled "Modulation of kinin responsiveness in human synovial cells by interleukin".

January 15, 1993, Lunchtime Conference, North Point Medical Center, Baltimore, MD "Management of rheumatoid arthritis".

January 27, 1993, Research Conference, School of Public Health Dept. of Immunology and Infectious Diseases, Johns Hopkins Univ., Baltimore, MD, lecture entitled "Mechanisms of synergism between cytokines and bradykinin".

November 1992, Visiting Scientist, Osteoarthritis Sciences, Inc., Boston, MA, lecture entitled "Delivery of anti-inflammatory agents to the joint by biodegradable microspheres".

November 1992, Grand Rounds, Francis Scott Key Medical Center, Baltimore, MD, "Dialysis arthropathy".

September 24, 1992, Professor Rounds, Johns Hopkins Hospital, Baltimore, MD, "Rheumatoid arthritis".

July 31, 1992, Orthopaedic Surgery research conference, Johns Hopkins Univ., Baltimore, MD, "Role of kinins in the pathogenesis of inflammatory arthritis".

June 9, 1992, Orthopaedic Surgery clinical conference, Johns Hopkins Univ., Baltimore, MD, "Mechanisms of inflammation and joint destruction".

February 1992, Visiting Scientist, Proctor and Gamble, Cincinnati, OH, lecture entitled "Mechanism of induction of bradykinin responsiveness by interleukin-1".

May 1991, Grand Rounds, Greater Baltimore Medical Center, Baltimore, MD "Pathogenesis of rheumatoid arthritis".

March 12, 1991, Research Conference, Division of Geriatric Medicine, Johns Hopkins Univ., lecture entitled "The role of bradykinin in inflammatory responses".

March 28, 1990, Research Conference, Johns Hopkins University School of Public Health Dept. of Immunology and Infectious Diseases, lecture entitled "Cytokine regulation of kinin responsiveness of human synovial cells", Baltimore, MD

November 10, 1989, Participant, Symposium – "Practical Rheumatology for the Clinician", lecture entitled "My neighbor's taking the new nonsteroidals", sponsored by The Arthritis Foundation, Md. Chapter, Baltimore, MD.

March 16, 1988, Orthopaedic Surgery clinical conference, Johns Hopkins Univ., Baltimore, MD, "Rheumatoid arthritis".

November 1987, Grand Rounds, Francis Scott Key Medical Center, Baltimore, MD, "Lyme arthritis".

July 1987, Maryland Rehabilitation Center, Baltimore, MD, "Transverse myelitis and lupus".

May 1986, Medical Grand Rounds, Ohio Valley Medical Center, Wheeling, WV, "Diagnosis and treatment of osteoporosis".

December 5, 1985, Medical Grand Rounds, West Virginia Univ., Morgantown, WV, "Unknown case".

August 8, 1985, Medical Grand Rounds, West Virginia Univ., Morgantown, WV, "Cryoglobulinemia".

July 18, 1985, Participant, Symposium "Hal Wagner Family Practice Conference", West Virginia Univ., Morgantown, WV, lecture entitled "Management of rheumatoid arthritis".

November 1984, Medical Grand Rounds, West Virginia Univ., Morgantown, WV, "Sarcoidosis".

February 7, 1984, Clinical Correlations Conference, Biochemistry Dept., West Virginia Univ., Morgantown, WV, "Diagnosis and management of gout".

February 20, 1984, Graduate Student Gerontology Course, West Virginia Univ., Morgantown, WV, "Differential diagnosis of arthritis".

November 1983, Participant, Symposium "Hal Wagner Family Practice Conference", West Virginia Univ., Morgantown, WV, lecture entitled "Neuropsychiatric manifestations of systemic lupus erythematosus".

October 1983, Grand Rounds, Garret County Hospital, Oakland, MD, "Reiter's Syndrome".

**APPEARS THIS WAY
ON ORIGINAL**